

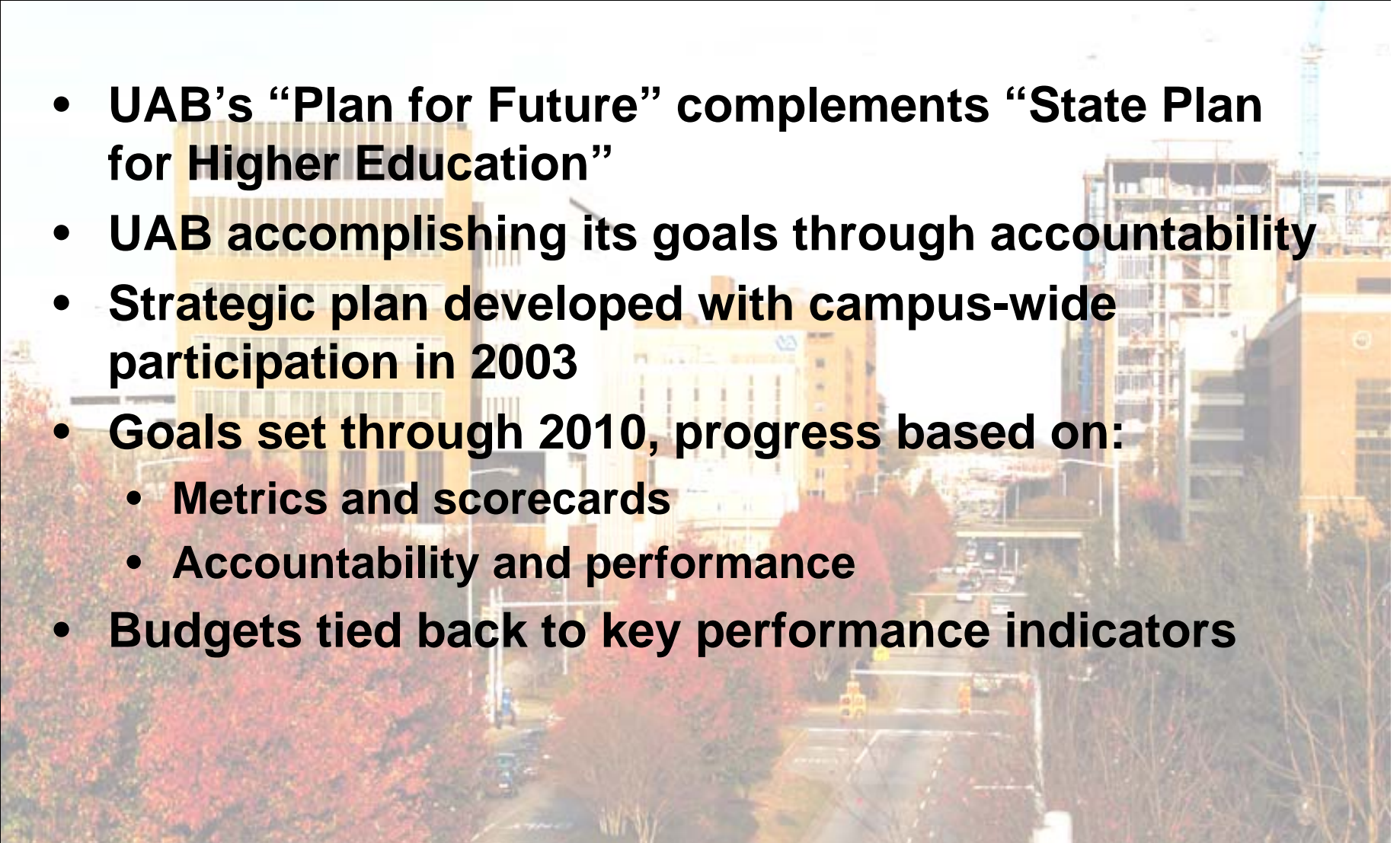


**UAE**

# ACHE and UAB: Shared Vision



- UAB's "Plan for Future" complements "State Plan for Higher Education"
- UAB accomplishing its goals through accountability
- Strategic plan developed with campus-wide participation in 2003
- Goals set through 2010, progress based on:
  - Metrics and scorecards
  - Accountability and performance
- Budgets tied back to key performance indicators



# UAB's Plan for the Future



- **Vision**
  - An internationally renowned research university—a first choice for education and health care
- **Mission**
  - UAB is a research university and academic health center that discovers, teaches and applies knowledge for the intellectual, cultural, social and economic benefit of Birmingham, the state and beyond.





## Focus on Six Areas

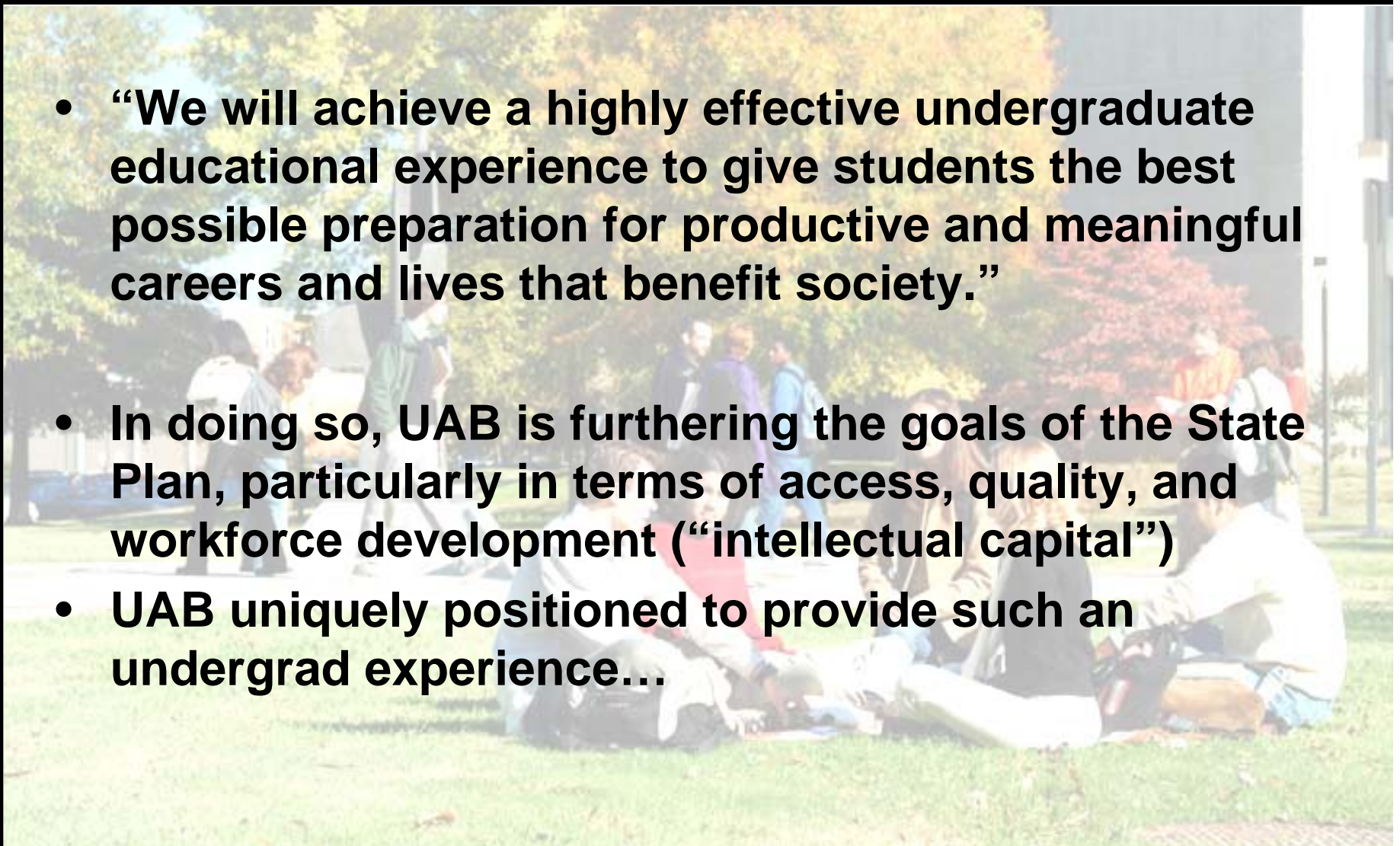
- Undergraduate education
  - Graduate and professional education
  - Research and scholarship
  - Service to community, state
  - Community/financial support
  - Work environment
- 
- Today we'll discuss two of these areas to demonstrate progress, challenges...



# **UAB Goal: Undergraduate Education**



- **“We will achieve a highly effective undergraduate educational experience to give students the best possible preparation for productive and meaningful careers and lives that benefit society.”**
- **In doing so, UAB is furthering the goals of the State Plan, particularly in terms of access, quality, and workforce development (“intellectual capital”)**
- **UAB uniquely positioned to provide such an undergrad experience...**





# UAB Offers a Singular Undergraduate Experience



- A rich, increasingly “traditional” campus life in the heart of a vibrant, diverse community
- Unrivalled research opportunities, internships, study abroad
- Acclaimed Honors Program producing Rhodes, Truman, Goldwater Scholars
- Challenging curricula, well-prepared students...



# UAB Scorecard

## Undergraduate Education



	2004 Goal	2004 Actual	2005 Goal	2005 Actual
<b>Undergraduate Enrollment</b>	<b>10,500</b>	<b>11,441</b>	<b>10,500</b>	<b>11,470</b>
<b>% Minority</b>	<b>34.7</b>	<b>36.9</b>	<b>34.8</b>	<b>36.5</b>
<b>Average ACT</b>	<b>22.49</b>	<b>22.52</b>	<b>22.74</b>	<b>23.1</b>
<b># Students in Study Abroad</b>	<b>62</b>	<b>40</b>	<b>85</b>	<b>89</b>

# Quality Enhancement Plan (QEP)



- QEP enhances quantitative literacy, writing, ethics and civic responsibility
- Learning communities
- “Difficult Dialogues” – Ford Foundation
- Campus wide Discussion Book Project...





## 2006 Discussion Book: *The Kite Runner* by Khaled Hosseini



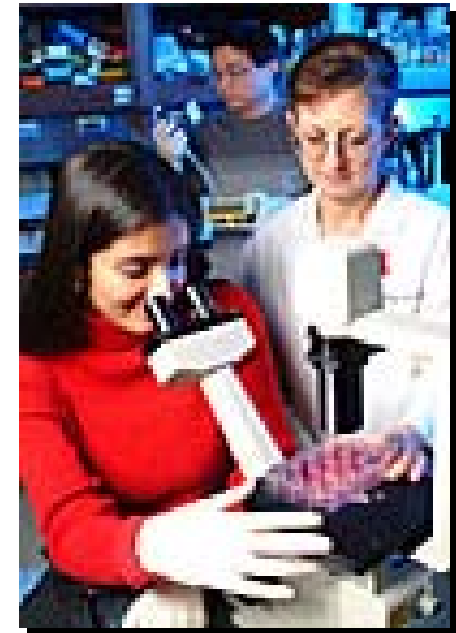
- A coming-of-age story set in pre- and post-revolutionary Afghanistan, contemporary America
- Explores how closely identity may be tied to place and culture
- Furthers UAB's mission of educating students to be knowledgeable participants in a global society



# **New Science/Technology Honors Program**



- **Advanced courses, symposia conducted by top UAB researchers, guest scholars**
  - **Group/individual research experiences under faculty mentors**
  - **In-depth advising, internships**
  - **36 students currently enrolled**
- **Complements existing honors programs of individual schools**



Jessica Record video (1:31)



# Educating the Best and Brightest



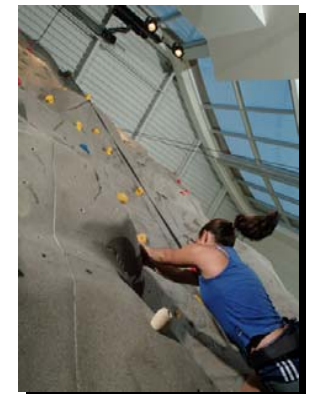
- **Last spring, UAB's mock trial team won National Mock Trial Tournament**
  - **Championship trophy moved from Harvard to UAB**
- **Ashley Roach, Biomedical Engineering major and 2006 Goldwater Scholar (UAB's fourth in five years)**
  - **Wants to pursue a Ph.D. in neuroengineering and do research on brain-machine interface technology for spinal cord injury patients**



# Attracting Students to a More Inviting Campus



- **Campus Recreation Center opened to great fanfare in fall 2005**
  - **Already a campus hub: currently averages over 1,900 visitors daily**
  - **Anchors larger Campus Green project**



# UAB Campus Green





# Building K-PhD Pipeline



- **UAB working with K-12 to better prepare students, enhance instruction; Furthering State Plan goal of cooperation**
  - **Greater Birmingham Mathematics Partnership (NSF, \$10M): Teaching innovative math instruction to reduce achievement gap**
  - **BioTeach: Lab, lecture-based training in biology for high school teachers**
  - **Alabama “Science in Motion” (SIM): Statewide science classes/teacher professional development in chemistry, physics, biology**

## Also Partnering with Junior Colleges to Enhance Student Experience



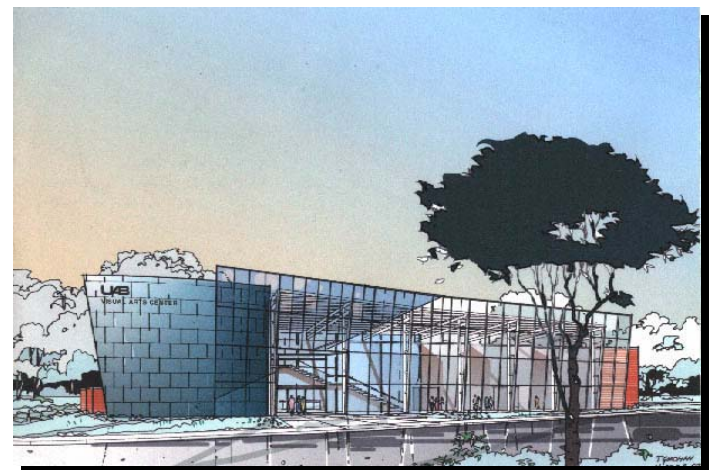
- **“Connections” began fall 2005, providing access to UAB resources**
- **Involves Lawson State (2 campuses) and Jefferson State (2 campuses)**
  - **UAB office, counselors on each**
- **Provide info on UAB curriculum, student services, transferring to UAB, and tickets to athletic, arts events**
- **Furthering State Plan goal of access**



# Bringing Art and Cultural Events to Community and State



- Alys Stephens Center, Birmingham's Home of the Performing Arts
- Developing "Cultural District," including plans for a Visual Arts Center
  - Building upon UAB Visual Arts Gallery, which hosts roughly 4,100 visitors annually





## **UAB Goal: Research and Scholarship**



- **“We will expand and improve UAB’s research and scholarship capability to acquire and disseminate new knowledge that benefits society and that further positions UAB as an internationally recognized research university.”**
- **Providing better health, quality of life while furthering State Plan goal of leveraging resources (funding, economic development)**

# UAB Scorecard

## Research and Scholarship



	2004 Goal	2004 Actual	2005 Goal	2005 Actual
<b>Research Expenditures</b>	N/A	\$352,874,560	\$381,104,525	\$411,682,317
<b>Amt. Research Space (NASF)</b>	840,660	830,041	926,160	856,164
<b>Royalty Revenue</b>	\$2,100,000	\$2,008,633	\$2,500,000	\$8,215,285
<b>New Licenses</b>	24	14	24	16
<b>New Patents</b>	28	56	28	48

# Leveraging Resources, Attracting Funding



- Research funding doubled every decade since 1969; currently about \$400M
- 20th overall in NIH funding, School of Medicine is 18th
- Carnegie Foundation designated UAB as an institution of “very high research activity”
  - Only school in Alabama to meet that definition
  - Among nation's top 95 research universities, public or private, including Harvard, Cornell, Emory, Duke, UNC-Chapel Hill

# Breaking New Ground in Science, Medicine, Engineering



- UAB one of 4 institutions in virtual Center for HIV/AIDS Vaccine Immunology; \$300M for 7 years to develop vaccines
- Brain tumor drug (synthetic version of a peptide in scorpion venom) recently had favorable results in a Phase II clinical trial
- New technology to create large gem-quality diamonds in just days (industrial applications)
  - Vista Engineering (business incubated at UAB) holds license, has \$1.4M in NSF grants; testing with GM, Ford (\$40K development program with Ford)
  - Perfect example of revenue from commercialization of discoveries...



# Technology Transfer



- **UAB's Office for the Advancement of Developing Industries: started 92 companies since 1986**
  - Since 2002, economic impact of \$390M
  - In 2005, 900 new jobs; earnings impact of \$33M; sales impact of \$83M
- **In two decades, UAB Research Foundation has created more than \$30M in royalty and license fees**
  - Over 1,600 invention disclosures, 400 patents, over 400 license and other agreements
  - Holds stock in 30 spin-off companies



# Teaching Technology Transfer



- **Exciting program in the School of Business: “MBA for Scientists”**
  - **Equipping researchers with business skills needed for tech transfer ventures**
  - **Full-time traditional MBA program that may be completed in one year**



MBA for Scientists video

# Providing Alabama with World-Class Clinical Care

- 7 programs ranked in nation's top 50 (5 in the top 25) in *U.S. News & World Report* 'America's Best Hospitals' issue
- 234 physicians in 'Best Doctors in America' (includes only about 5% of U.S. physicians)
- 7 years among American Hospital Association's '100 Most Wired' hospitals, longer than other top medical centers, including Duke and Sloan-Kettering

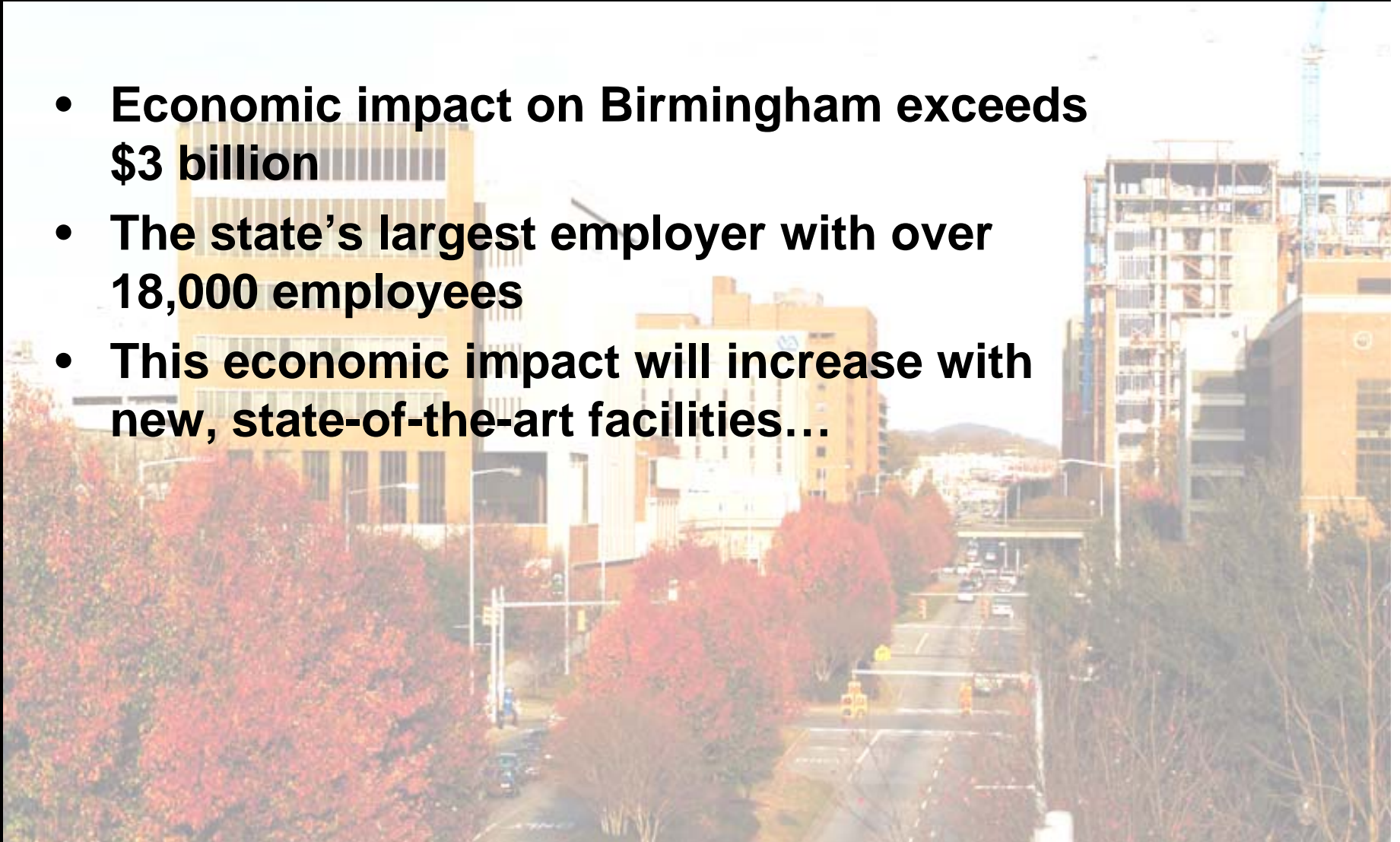




# UAB's Economic Impact



- **Economic impact on Birmingham exceeds \$3 billion**
- **The state's largest employer with over 18,000 employees**
- **This economic impact will increase with new, state-of-the-art facilities...**



# Shelby Interdisciplinary Biomedical Research Building

- Dedication last spring attended by Senator and Dr. Shelby, other community, state leaders
- Roughly 325,000 SF of research space
- Millions more annually in research funding
- In-migration of talent from outstanding institutions around the nation and world



## **A Considerable Investment...**



- **Faculty recruitment is very expensive**
  - **UAB's research strategic plan calls for recruitment of at least 30 new research physicians, scientists per year over next decade to grow faculty to comparability with peers**
- **Recruitment packages for potential national stars generally average ~\$1 million each**
  - **Not to mention capital investment requirements that will exceed \$150 million**

# **An Extraordinary Return...**



- **Average external funding per UAB researcher:  
~\$670,000 annually**
  - **Provides support for 1-3 professional staff, 3-6 trainees**
  - **Leveraging of investment of internal dollars ranges from 7-12 fold**
- **\$10 million IMPACT set-aside from UAB's state allocation to hire new faculty**



# Partnership for Alabama's Future



- **UAB needs continued investment from state to further economic impact**
- **Clearly, research is critical to leveraging resources; almost all funding coming into the state from external sources**
  - **Striking example from clinical division, Rheumatology: 7% from state, 10% from clinical income, 83% from external sources (mostly NIH)**
- **UAB looks forward to continued partnership with ACHE in achieving State Plan goals, moving Alabama forward**
- **Testimonials from UAB alumni...**

Alumni spots – Lucy Jones,  
Preston Scarber, Larry DeLucas



UAE